Missouri Weekly Influenza Report
2006-2007 Season[1]

Missouri is reporting "Local Influenza Activity" to the CDC for Week 4[2].
To view influenza maps click here. Each map will give county data by placing the cursor over the county.

Table 1. Reported Laboratory cases by sub-type for the Week ending January 27, 2007 (Week 4)

Serogroups	A (non-typed)	A (H1)	A (H1N1)	A (H3)	B	A or B Untyped (rapid test)	Total
Week 4	157	4	1	0	33	67	262

257 cases by rapid non-culture diagnostic test, 4 culture confirmed type A(H1) and 1 culture confirmed type A(H1N1) have been reported for week 4.

Table 2. Influenza Season-to-Date and 5-season Median by Influenza Type Through Week Ending January 27, 2007 (Week 4)

Influenza Type	2006-07 Season	5-Season Median	Percent Change from 5-Season Median
Influenza A	3,934	494	696.4%
Influenza B	607	151	302.0%
Influenza Unknown Or Untyped	1,373	485	183.1%
Total	5,914	1,777	232.8%

Season-to-Date: two isolates are identified as influenza A/Hawaii/15/2001-like (H1N1) viruses and two other isolates as influenza A/New Caledonia/20/99-like (H1N1) viruses.

Table 3. Influenza Season-to-Date and 5-season Median by Age Group Through Week Ending January 27, 2007 (Week 4)

Age Group	Count	5-Season Median	Percent Change from 5-Season Median
00-<02	697	202	245.0%
02-04	1,032	211	389.1%
05-14	2,776	539	415.0%
15-24	449	197	127.9%
25-49	637	177	259.9%
50-64	176	81	117.3%
65+	147	106	38.7%
Total	5,914	1,777	232.8%

Table 4. Influenza Season-to-Date and 5-season Median by Region Through Week Ending January 27, 2007 (Week 4)

Region	Count	5-Season Median	Percent Change from 5-Season Median
CE	852	309	175.7%
EA	1,880	279	573.8%
NW	1,454	925	57.2%
SE	973	42	2216.7%
SW	755	164	360.4%
Total	5,914	1,777	232.8%

Table 5. Deaths involving Pneumonia and Influenza (P&I)
Reported During the Week Ending January 20, 2007 (Week 3)*

Week 3	Season-to-Date	Week 3 Last Season	5 Year Weekly Median
121	1251	120	101

* Beginning in Week 35 of 2003, the number of P&I deaths became based on a new system of retrieval that now includes all contributing causes of death from death certificates.

Graph 1. Influenza 2006-07 Season-To-Date as compared to the previous 4 influenza seasons
Through the Week Ending January 27, 2007 (Week 4)

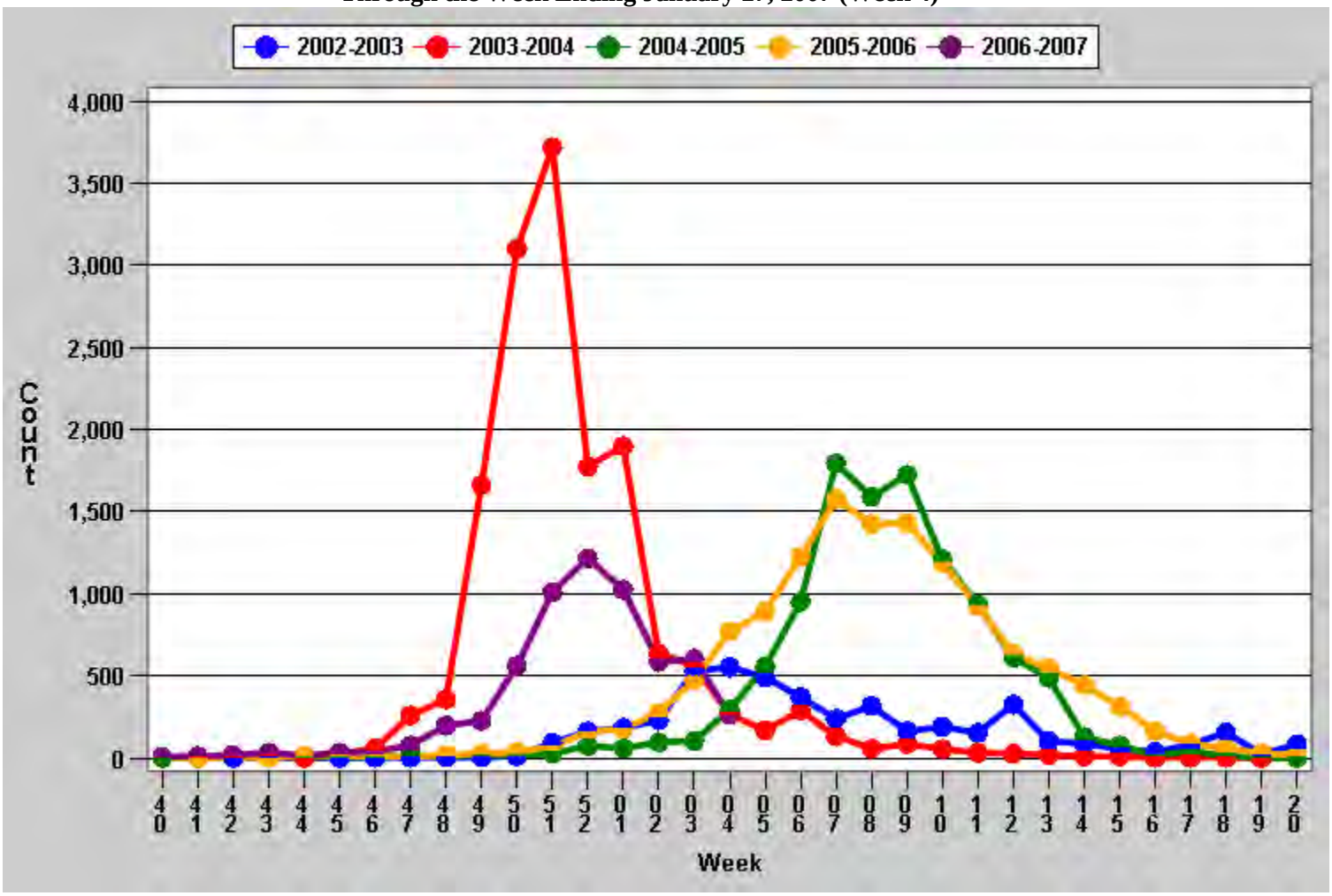

Table 6. U.S. Influenza Sentinel Physicians Surveillance Network
Influenza-like Illness (ILI) for the Week Ending January 20, 2007 (Week 3)

Age 0-4	Age 5-24	Age 25-64	Age 65+	Total ILI Patients Seen	Total Patients Seen	Percent ILI*
11	35	14	3	52	3026	1.71*

*This is below the national baseline of 2.5%

Table 7. Respiratory Specimens Submitted to SPHL for Viral Testing
Through the Week Ending January 27, 2007 (Week 4)

	Positive Influenza	Total Number Specimens Submitted
Week 4	4	1
Season-to-Date	23	70

Antigenic Characterization of Missouri Influenza Isolates submitted to CDC by the State Public Health Laboratory: CDC antigenically characterizes a sample of positive Missouri influenza isolates, submitted through the Missouri Department of Health and Senior Services (DHSS), State Public Health Laboratory (SPHL). DHSS has submitted eight influenza isolates this season to CDC for antigenic characterization.

Results Received from CDC: CDC has antigenically characterized four of those isolates so far this season: two as influenza A/Hawaii/15/2001-like (H1N1) viruses and two as influenza A/New Caledonia/20/99-like (H1N1) viruses.

Isolates were characterized by hemagglutination-inhibition using post-infection ferret antisera and are related antigenically to A/Hawaii/15/2001, a minor antigenic variant of A/New Caledonia/20/99. A/New Caledonia/20/99 is the WHO recommended H1 component of the 2006-2007 vaccine for the Northern Hemisphere and 2007 vaccine for the Southern Hemisphere.

FDA's Vaccines and Related Biological Products Advisory Committee (VRBPAC) recommended that influenza vaccines to be used in the 2006-2007 season in the U.S. contain the following:

- An A/New Caledonia/20/99 (H1N1)-like virus;
- An A/Wisconsin/67/2005 (H3N2)-like virus (A/Wisconsin/67/2005 and A/Hiroshima/52/2005strains); and
- A B/Malaysia/2506/2004-like virus (B/Malaysia/2506/2004 and B/Ohio/1/2005 strains)

The influenza vaccine composition to be used in the 2006-2007 season in the U.S. is identical to that recommended by the World Health Organization on February 15, 2006.

Clusters/Outbreaks of Influenza-like Illness: Two school closings were reported in the Southeast Region for week 4; one closing was reported for last season. Seven school closings due to Influenza-like illness have been reported season-to-date, as compared to one school closing reported during this same time last season. No outbreaks have been reported this season as compared to one last season.

Data Sources: Laboratory-confirmed cases are reported to DHSS through the passive communicable disease surveillance system. Suspected influenza clusters and outbreaks are reported through the active surveillance system. Pneumonia and influenza deaths are reported through the DHSS Bureau of Vital Records. Influenza-like illness data by age category and total number of patient visits by week are reported voluntarily by participants in the U.S. Influenza Sentinel Physicians Surveillance Network.

Find Us on the Web

This report may also be found on the DHSS Internet at: www.dhss.state.mo.us/Influenza/index.html.

National influenza surveillance information is available from the Centers for Disease Control and Prevention at: www.cdc.gov/ncidod/diseases/flu/weekly.htm.

Contact Us

The Missouri Department of Health and Senior Services after hour's number for reporting disease cases and emergencies is **1-800-392-0272**.

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[1] ***All data in this report are provisional and may change as reports are updated.***

[2] ***Influenza activity codes are reported to CDC each Monday.***